
JO DAVIESS
STEPHENSON
WINNEBAGO
BOONE
MC HENRY
LAKE
CARROLL
OGLE
DE KALB
KANE
COOK
WHITESIDE
LEE
DU PAGE
WILL
LA SALLE
BUREAU
KENDALL
GRUNDY
ROCK ISLAND
MERCER
HENRY
PUTNAM
KANKAKEE
KNOX
STARK
MARSHALL
LIVINGSTON
WARREN
PEORIA
IROQUOIS
WOODFORD
HENDERSON
MC LEAN
FULTON
HANCOCK
MC DONOUGH
FORD
TAZEWELL
VERMILION
MASON
CHAMPAIGN
SCHUYLER
LOGAN
DEWITT
ADAMS
BROWN
CASS
MENARD
PIATT
MACON
PIKE
MORGAN
DOUGLAS
EDGAR
SCOTT
MOULTRIE
CHRISTIAN
SHELBY
COLES
SANGAMON
GREENE
MACOUPIN
CLARK
CALHOUN
MONTGOMERY
CUMBERLAND
JERSEY
FAYETTE
EFFINGHAM
JASPER
CRAWFORD
MADISON
BOND
RICHLAND
LAWRENCE
MARION
CLINTON
CLAY
WAYNE
EDWARDS
WABASH
JEFFERSON
WASHINGTON
MONROE
ST. CLAIR
HAMILTON
WHITE
RANDOLPH
PERRY
FRANKLIN
JACKSON
SALINE
GALLATIN
WILLIAMSON
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UNION
JOHNSON
POPE
HARDIN
ALEXANDER
PULASKI
MASSAC

HARRISBURG **ISGS #63**
POTENTIAL WETLAND COMPENSATION SITE
FAP 332
Saline County, near Harrisburg, Illinois
Primary Project Manager: Geoffrey E. Pociask
Secondary Project Manager: Gregory A. Shofner

SITE HISTORY

- January 2000: ISGS was tasked by IDOT to conduct an Initial Site Evaluation of the site.
- April 2000: ISGS submitted an Initial Site Evaluation report identifying the site as having low-moderate potential for wetland restoration.
- December 2001: ISGS was tasked by IDOT to conduct a Level II hydrogeologic characterization of the site.
- March 2002: ISGS initiated monitoring activities at the site.
- April 2004: Level II hydrologic characterization report was submitted to IDOT, and the created wetland was constructed.

WETLAND HYDROLOGY CALCULATION FOR 2004

We estimate that 1.3 ac (0.5 ha) out of an excavation of 20.0 ac (8.1 ha) satisfied wetland hydrology criteria for greater that 5% of the growing season in 2004, whereas no area satisfied wetland hydrology for greater than 12.5% of the growing season. These estimates are based on the following factors.

- According to the Midwestern Climate Center, the median date that the growing season begins in Harrisburg is April 1 and the season lasts 211 days; 5% of the growing season is 11 days and 12.5% of the growing season is 26 days.
- Total precipitation for the period from September 2003 through August 2004 was 85% of normal. Drier than normal conditions prevailed in October and December 2003 and during February through April, and June 2004. Precipitation amounts were at or above normal for September and November 2003 and in January, May, July, and August 2004.
- In 2004, monitoring wells 4S, 5S and 6S satisfied wetland hydrology criteria of the 1987 U.S. Army Corps of Engineers Wetland Delineation Manual for greater than 5% of the growing season. No wells satisfied the wetland hydrology criteria for greater than 12.5% of the growing season.
- The RDS data logger, located at the confluence of the drainage ditches at the east end of the site, indicated that surface-water inundation occurred below 111.0 m (364.2 ft) for a duration sufficient to satisfy wetland hydrology criteria for greater than 5% of the growing season. No area was inundated for greater than 12.5% of the growing season.
- Limitations of the wetland hydrology determination are as follows:
  - The area of wetland hydrology was calculated using GIS methods. The wetland-

hydrology polygon was drawn from an ISGS topographic map (0.1-meter contour interval) rectified to GPS locations of water-level instruments.

- GPS coordinates of the water-level instruments were determined during July 2003.

PLANNED FUTURE ACTIVITIES

- Monitoring will continue through 2009 or until no longer required by IDOT.

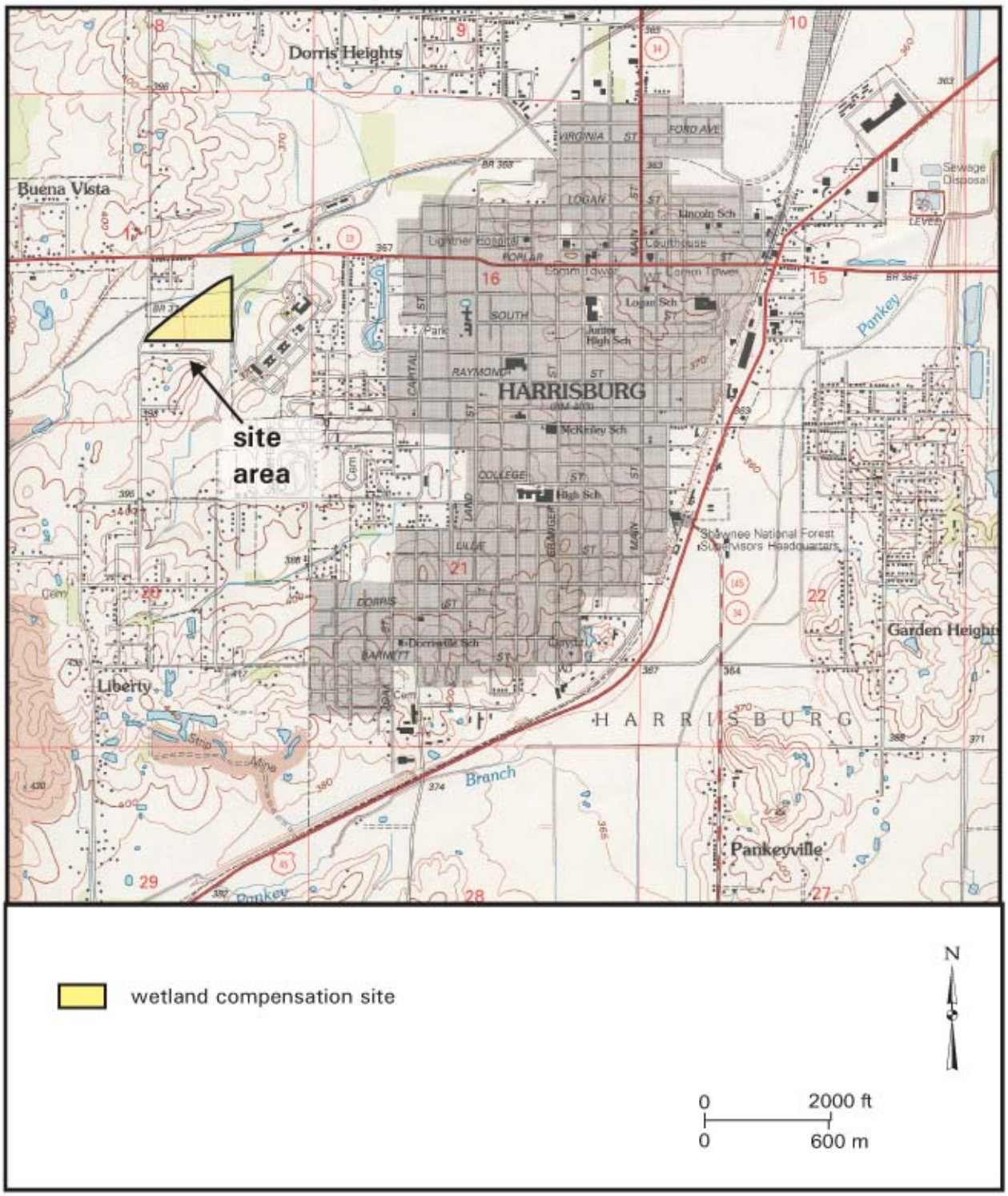
Harrisburg Potential Wetland Compensation Site

(FAP 332)

Site and Vicinity

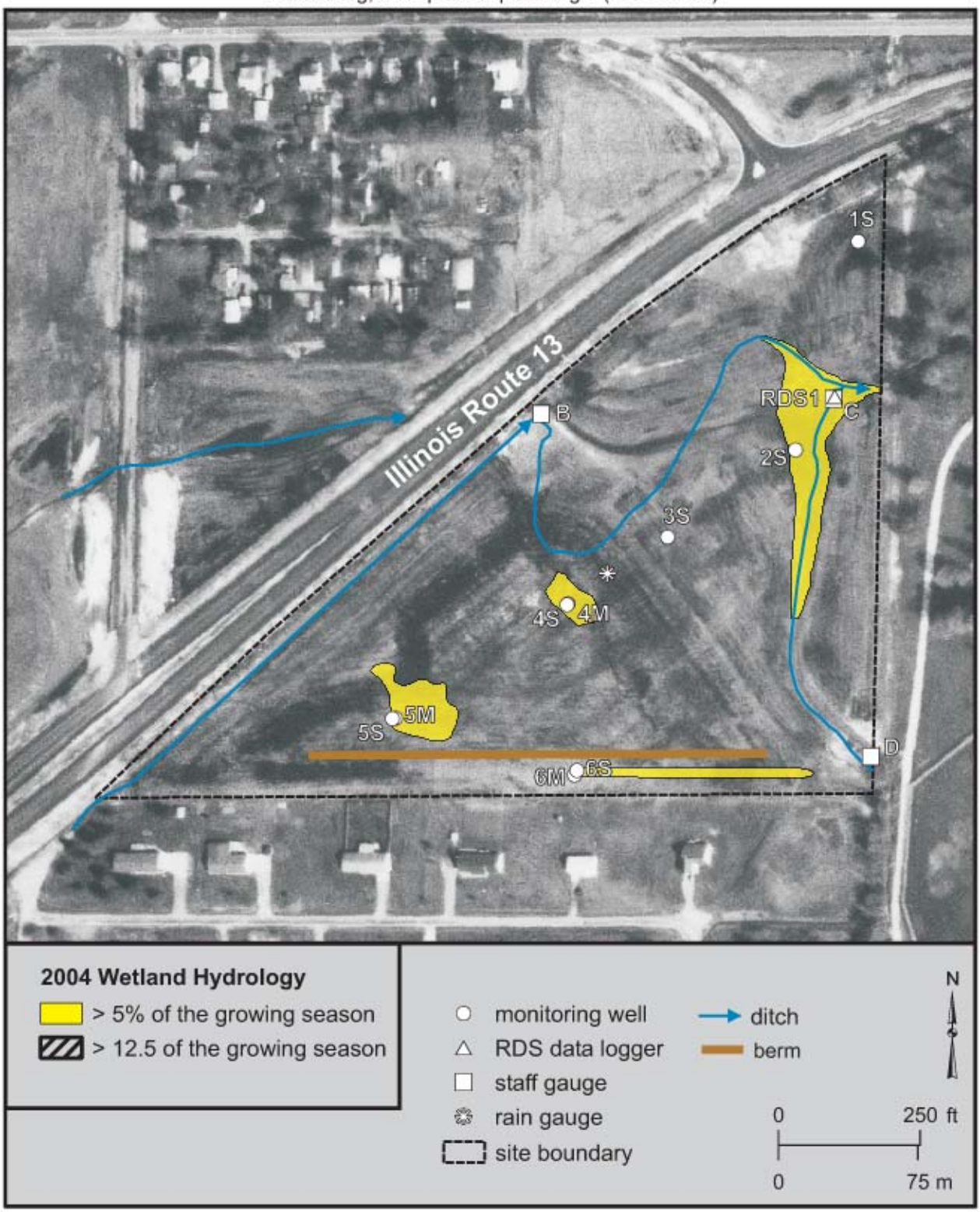
from the USGS Topographic Series, Harrisburg, IL 7.5-minute Quadrangle (USGS 1996)

contour interval is 5 feet



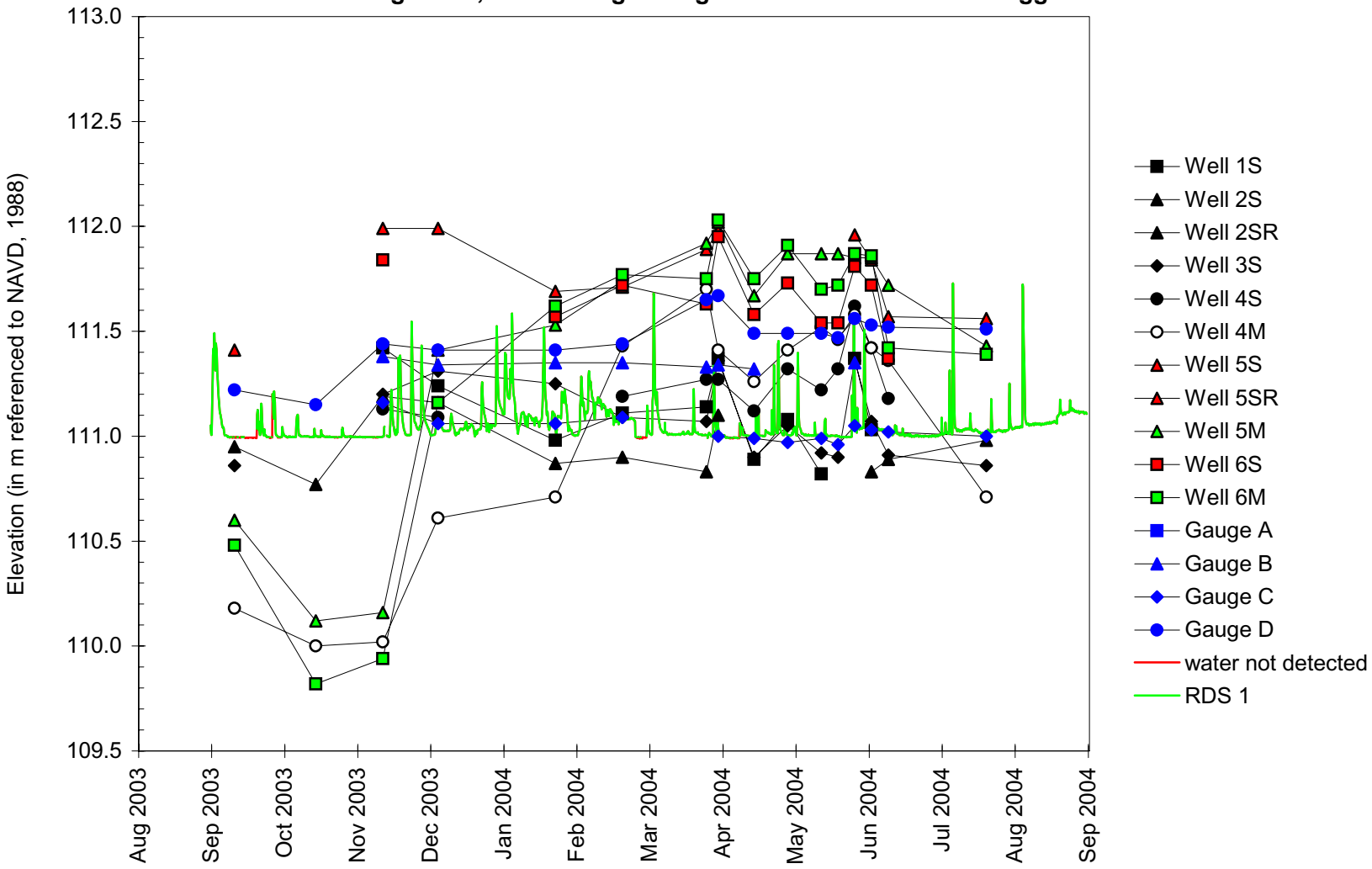
Harrisburg Wetland Compensation Site
(FAP 332)
Estimated Areal Extent of 2004 Wetland Hydrology

base map generated from IDOT aerial photography rectified to USGS digital orthophotograph
Harrisburg, NW quarter quadrangle (ISGS 2002)

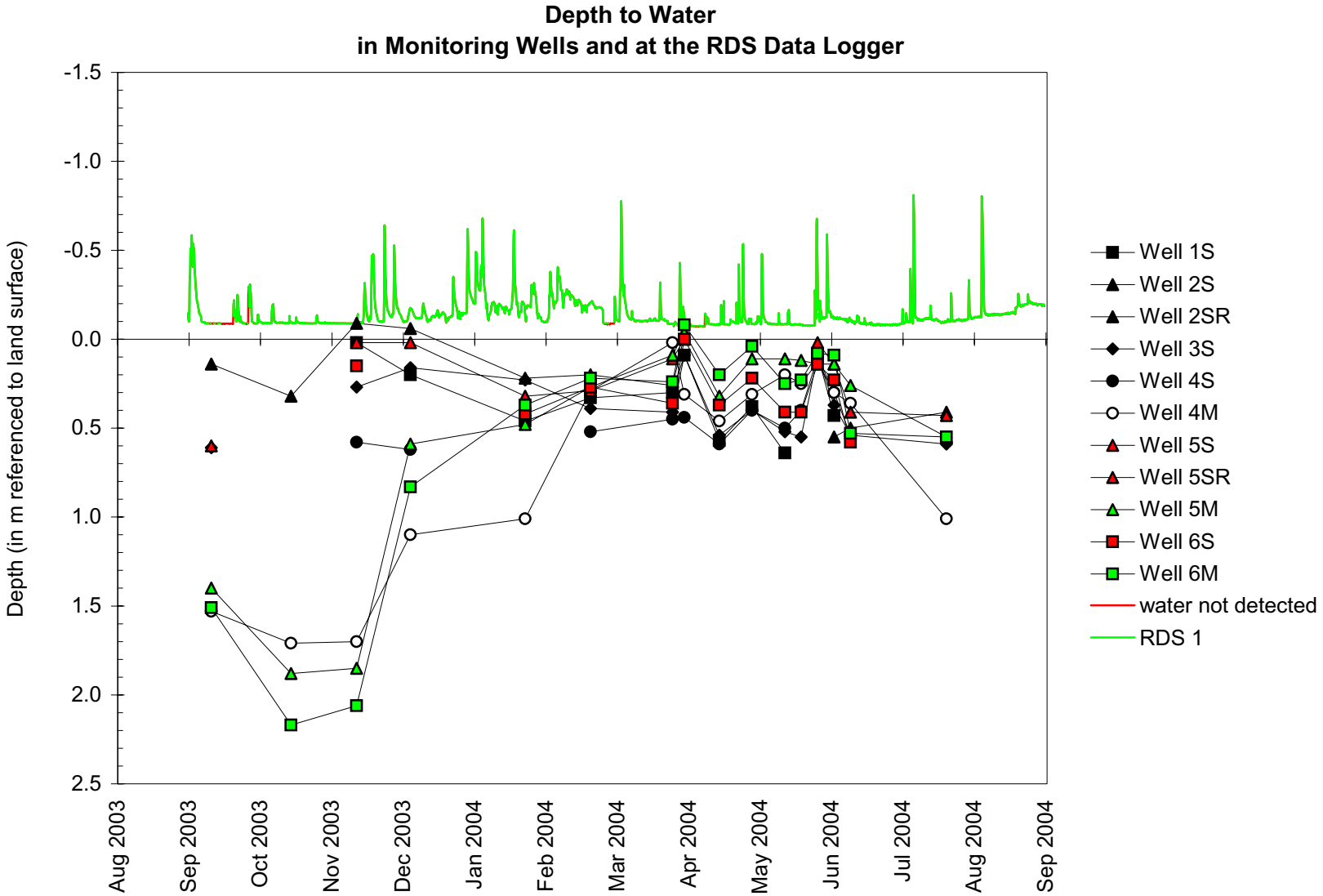


Harrisburg Potential Wetland Compensation Site
September 1, 2003 to September 1, 2004

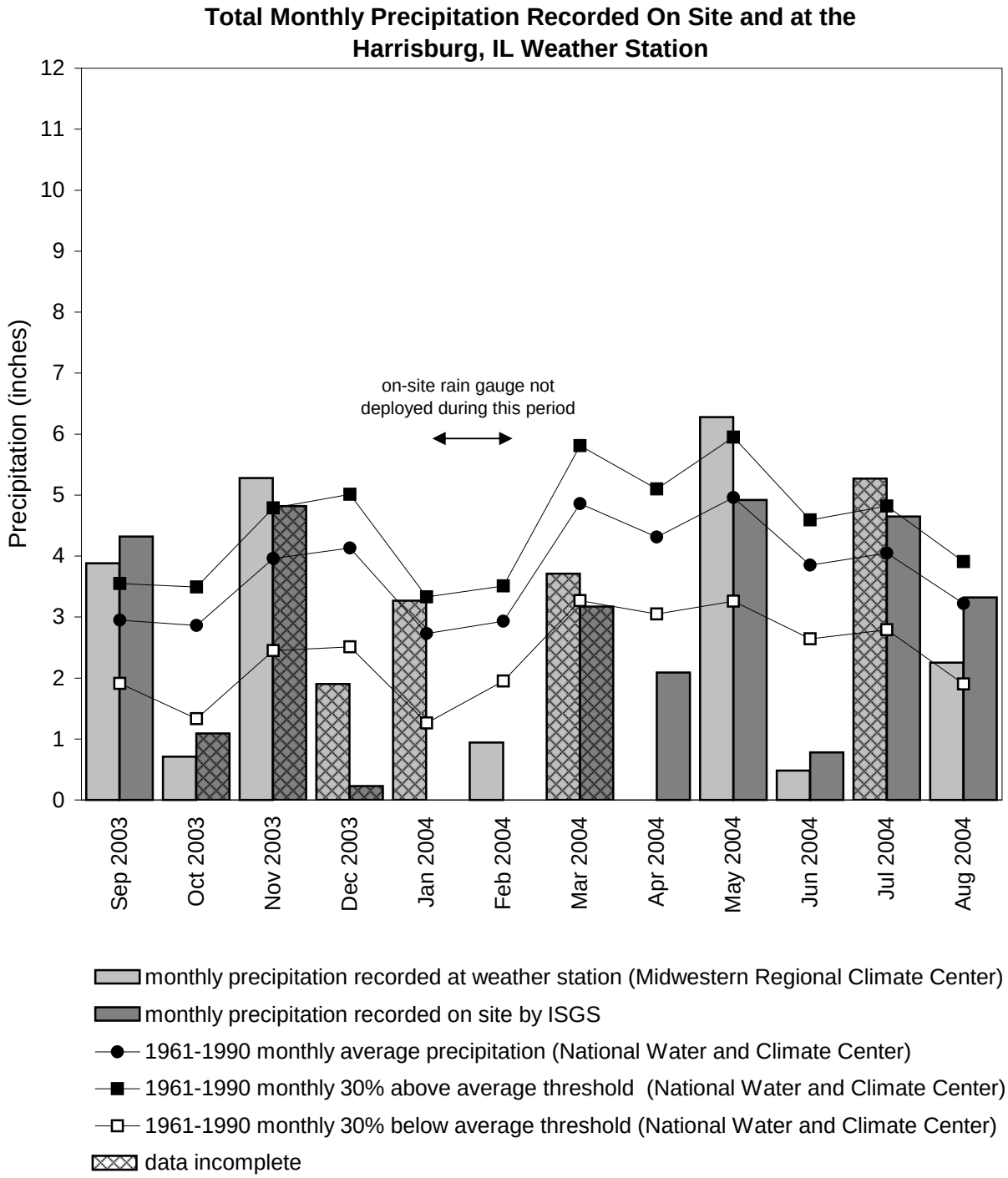
Water-Level Elevations
in Monitoring Wells, on the Stage Gauges and at the RDS Data Logger



Harrisburg Potential Wetland Compensation Site
September 1, 2003 to September 1, 2004



Harrisburg Potential Wetland Compensation Site
September 2003 through August 2004



Graph last updated October 1, 2004